	Application No.	Applicant(s)
Notice of Allowability	10/784,899	LIU ET AL.
	Examiner	Art Unit
	Brian K. Talbot	1762
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to after-final amendment filed 1/31/06.		
2. The allowed claim(s) is/are <u>1-8,12,14,15,17 and 110</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal P 6. ☐ Interview Summary	atent Application (PTO-152) (PTO-413),
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	te .
Paper No./Mail Date	o), 7. 🖸 Examiner's Amendr	menocomment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance

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1. The after-final amendment filed 1/31/06 has been considered and entered. Claims 9,13

and 16 have been canceled. Claims 1-8,10-12,14-15 and 17 remain in the application.

2. In light of the amendment filed 1/31/06, the 35 USC 103 rejections have been withdrawn.

3. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Brian Seidlick on 2/21/06.

The application has been amended as follows:

In claim 1, line 12, the term "magnesium" has been inserted between the term "the" and "vapor".

In claim 17, line 3, the phrase -- having a surface consisting essentially of silicon – has been

inserted between the terms "substrate" and "into".

Allowable Subject Matter

4. Claims 1-8,10-12,14,15 and 17 are allowed.

Reasons for Allowance

5. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or fairly suggest a method of forming a thin film magnesium boride on a silicon substrate whereby the pressure of magnesium vapor is maintained within the following equation:

$$Log(P) = -9549.5/T + 9.1$$
; and $Log(P) = -10142/T + 8.562$,

where P represents pressure in units of Torr and T represents temperature in Kelvin (K).

This forms a magnesium boride film substantially free of magnesium-silicon contaminates between the surface consisting essentially of silicon and the magnesium boride.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BKTAUT 2/21/06

Brian K Talbot Primary Examiner Art Unit 1762

BKT